

MAROHN TKE

MAROHN TKE

Your smart choice for future life.

Together with our customers we are transforming cities into the best places to live.

Creates products and service solutions that satisfy the highest customer demands in this rapidly urbanizing landscape.

TK Elevator - One of the world's leading elevator companies - holds the majority stake in Marohn TK Elevator.

TK Elevator installs, maintains and modernizes elevators and escalators worldwide. With clear solutions for increasingly complex infrastructures.



1811 iedrich Krupp esblished a factory Essen, Germany r making of cast eel, coining die di stainless steel



vay construcreated unlimpusiness opinities for cast Especially Alfred Krupp of Friedrich p) successfully ned the patent reamless railthis triggered p's first surge worth.



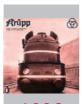
the gun barrel ingot rder from the rrussian military uthorities was a reakthrough in the levelopment of rupp's second najor production egment. Shortly therwards Krupp tarted production of complete artilery.



August Thyssen established the firm of Thyssen & Co., then set up the first joint enterprise with coal mining, steel making and steel rolling in Duisburg.



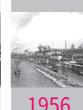
August Thyssen
Alfred Krupp chos
three superposed
railway tires as
Krupp trademark.the firm of
Thyssen & Co., th
set up the first joi
enterprise with co
mining, steel
making and steel
rolling in Duisburg



1886
Krupp supplied
1,500t. of rail steels
for the construction
of Beijing-Guangzhou railway. Then
it shipped more
than one hundred
locomotives to
China.



The Bank of China which was located at Shanghai Bund procured hundreds of tons of Krupp steel to produce safe and vault door, making it the Far East No. 1 bank at the time.



rough acquisition of merger, in the d-1960s Thysen scame Europe's gagest steel proceer and No.5 in e world.



975

Thyssen set up ne Thyssen AG throu merger, and estat lished four busine groups Capital Goods and Manufactured Products Trading and Serice, to mere the can of Krupp tition.

Thyssen set up ne Thyssen AG throu merger, and estat lished four busine groups Capital Goods and Manufactured Products Trading and Serice, and Steel. Thyssen incorpore ed the arch of Rhe instahl into the trademark.



1995
President Jiang
Zemin made a tour
to Krupp during his
visit in Germany.



1999
hyssenkrupp AG is
fficially registered
Essen, German.
he new trademark
as a blend of old
hyssen arch and



2002

or Marohn Thyssenk rupp Elevator is a specialized elevator is a specialized elevator is in the control of the c



2014

According to the desing standar industry 4.0, a intelligent fact of Marohn Thy:



Marohn TKE, a pr fessional elevator ew manufacturing er terprise. senlally Engineering that keeps the world moving.

MEL-S Machineroom-less elevator

The MEL-S Machineroom-less elevator brings state-of-the-art engineering to low rise residential and commercial

Its advanced gearless drive technology delivers energy efficiency and comes with flexible dimensions and a wide range of finishes

to suit your project.

Application

Low to mid rise residential

Commercial

Hotel

Specifications

Load Capacity Max. travel

90 m Max. floors served

Entrances

450 to 1600 kg 6 to 21 persons

1 front / 2 open through

Drive system

Door type

Direct gearless technology controller Microprocessor with integrated AC inverter

Automatic side opening / Automatic center opening / Clear door opening - From 700 - 1,000

Door height 2,000 - 2,300 mm Car height 2,100 - 2,400 mm

MEL-S machineroom-less elevator is certified by TUV with Energy Efficiency Class A VDI4707-1:2009 Energy Efficiency class

Traction Machine

Quiet, compact, energy efficient VVVF permanent magnets gearless drive technology.

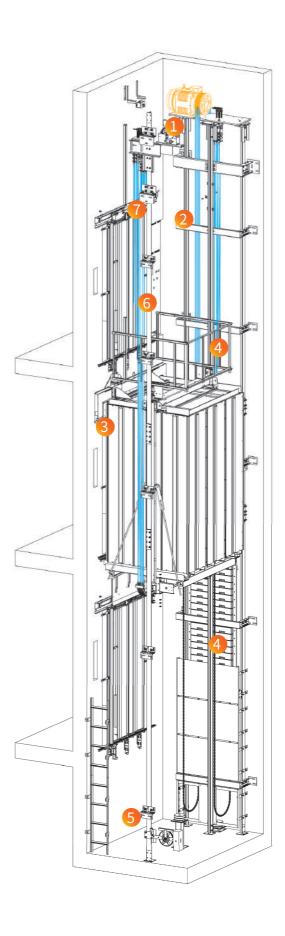
2 Control System

Optional regenerative drive relays power back to the power grid for further energy efficiency.

3 Door System

Special purpose light curtain enhances elevator safety.

Optional 3D infrared 'curtain' can be formed in front of the car door, to provide an immediate door-reopening response to anything entering this area.



4 CWT roller guide shoes

MEL-S comes with optional CWT roller guides shoes for smooth and stable movement.

5 Flexible Layout

Flexibility in design is one important advantage with the MEL-S solution. With our advanced independent system where the machine is mounted on top of the rails you can expect world class performance and a smooth ride experience.

6 5-Way Communication

5-way communication between elevator and remote monitoring centre.

7 Automatic rescue device (ARD)

For rescue operations, the ARD is powered by a rechargeable battery.

When power shuts down or the inverter is out of order, the car stops out of level zone. The rescuer can use this device to release the brake and move the car to the nearest floor.

Powder coating series





Standard decoration

Ceiling LED light CL08 Side wall SS443

Rear wall Powder coating C032_RAL5014
Front wall Powder coating C032_RAL5014

Floor FL01

Powder coating options



Cabin design.

Stainless steel series





Stainless steel

Ceiling LED light CL08
Front panel SS304
Side panel SS443 / SS304
Rear panel SS443 / SS304
Floor FL01

Etched & other options





lvery GY67 Si etching hairline etching



GY68 Bronze hairline etching mirror etchin

^{*}CL08 Ceiling is not available for trap door and panoramic lift

^{*}Etched stainless steel options apply to side and rear panel only



MD1316

| Ceiling | CL22 |
|-------------|---------------|
| Front panel | SS443 / SS304 |
| Side panel | SS443 / SS304 |
| Rear panel | SS443 / SS304 |
| Floor | Marble FL307 |

Etched & other options









GY69 Bronze

MD1317

Silvery mirror

| Ceiling | CL23 |
|-------------|--|
| Front panel | SS443 / SS304 |
| Side panel | SS443 / SS304 + mirror SS304 + SS443 / SS304 |
| Rear panel | SS443 / SS304 + mirror SS304 + SS443 / SS304 |
| Floor | Marble FL308 |

Etched & other options











*Etched stainless steel options apply to side and rear panel only

Cabin design.



MD1318

| Ceiling | CL24 |
|-------------|---|
| Front panel | Champagne gold sandblasting stainless steel |
| Side panel | Champagne gold sandblasting stainless steel |
| Rear panel | Champagne gold sandblasting stainless steel |
| Eleor | Marble El 200 |



MD1319

| Ceiling | CL23 |
|-------------|---|
| Front panel | Bronze hairline stainless steel |
| Side panel | Bronze hairline stainless steel |
| Rear panel | Bronze hairline stainless steel + Bronze mirror stainless steel + Bronze hairline |
| | stainless steel |
| Floor | Marble |
| | |

^{*}Etched stainless steel options apply to side and rear panel only



MD1342

| Ceiling Front panel | CL47 in bronze hairline stainless steel Bronze Hairline stainless steel |
|------------------------|---|
| Side panel | Bronze Hairline stainless steel + GY68 etched stainless steel + Bronze Hairline stainless steel |
| Rear panel | Bronze Hairline stainless steel + GY68 etched stainless steel + Bronze Hairline stainless steel |
| Handrail | HR31 Bronze hairline stainless steel |
| Floor | Marble FL308 |

Cabin design.



MD1344

| Ceiling | Titanium gold mirror stainless steel, titanium mirror etched stainless steel, Decorative lights, LED downlights |
|-------------|---|
| Front panel | Titanium Gold Mirror stainless steel |
| Side panel | Titanium Gold Mirror stainless steel+Beige beehive marble |
| Rear panel | Beige beehive marble + Solid wood wire frame colored glass mirror + Beige beehive marble |
| Handrail | Titanium mirror stainless steel tube, Solid log |
| Floor | Parquet Marble |
| Car door | Titanium gold mirror stainless steel |



MD1343

| Ceiling | CL46 in golden mirror stainless steel |
|-------------|---|
| Front panel | Golden Mirror stainless steel |
| Side panel | Golden Mirror stainless steel + GY69 etched stainless steel + Golden Mirror stainless steel |
| Rear panel | Golden Mirror stainless steel + GY69 etched stainless steel + Golden Mirror stainless steel |
| Handrail | HR31 Golden hairline stainless steel |
| Floor | Marble FL308 |



MD1345

| Ceiling | Titanium Black sandblasting stainless steel, Acrylic light strip, Matte white powdered steel |
|-------------|---|
| | plate, LED down light, LED soft rope Light |
| Front panel | Titanium Black sandblasting stainless steel |
| Side panel | Titanium Black sandblasting stainless steel + Stainless steel woven mesh with Hairline stainless steel trim strip + Titanium Black sandblasting stainless steel |
| Rear panel | Titanium Black sandblasting stainless steel + Titanium Black mirror stainless steel with Hairline stainless steel trim strip + Titanium Black sandblasting stainless steel |
| Handrail | Flat hairline stainless steel |
| Floor | Marble inlaid stainless steel trim |
| Skirting | Titanium Black sandblasting stainless steel |
| Car door | Titanium Black sandblasting stainless steel |



MD1346

| Ceiling | Titanium Black hairline stainless steel, |
|-------------|---|
| | Titanium Black sandblasting stainless stee |
| | LED down light |
| Front panel | Titanium Black sandblasting stainless stee |
| Side panel | Wood veneer with titanium Blac sandblasting stainless steel trim strip |
| Rear panel | Titanium Black sandblasting stainless steet + Titanium Black mirror stainless steet + Titanium Black sandblasting stainless steet |
| Floor | Parquet Marble |
| Skirting | Titanium Black sandblasting stainless stee |
| Car door | Titanium Black sandblasting stainless stee |



MD1347

| Ceiling | Bronze sandblasting stainless steel, LED |
|-------------|---|
| | down light, LED light strip |
| Front panel | Bronze sandblasting stainless steel |
| Side panel | Bronze sandblasting stainless steel + Wood veneer + Bronze sandblasting stainless steel |
| Rear panel | Bronze mirror stainless steel, Bronze sandblasting stainless steel, LED soft rope Light |
| Handrail | Bronze mirror stainless steel tube |
| Floor | Marble |
| Car door | Bronze sandblasting stainless steel |
| | |

Panoramic Cabin Series.



MD1316 with rear glass

Ceiling CL22
Front panel Hairline SS304
Side panel Hairline SS304
Rear panel Glass with SS304 frame
Handrail HR11
Floor Marble FL308

Frame options





MD1316 with 3 sides glass

Ceiling CL22
Front panel Hairline SS304
Side panel Glass with SS304 frame
Rear panel Glass with SS304 frame
Handrail HR11
Floor Marble FL308

Frame options



Ceiling Options.



CL03

Standard Slivery Mirror stainless steel
Option Slivery Hairline stainless steel



CL06B

Standard Powder coating Steel:C000_RAL7047



CL10

Standard Slivery Mirror stainless steel
Option Slivery Hairline stainless steel



CL13

Standard Slivery Mirror stainless steel
Option Gold Mirror stainless steel



CL18

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL22

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel

Ceiling Options.



CL23

Standard Hairline stainless steel
Option Mirror stainless steel



CL24

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel
champagne gold sandblasting st. st



CL46

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL47

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL48

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL49

Standard Powder coating Steel:C000_RAL7047
Option Slivery Hairline stainless steel

^{*}Trap door is not available for ceiling CL06B, CL10, CL18 and CL24 Car depth should be \geq 1400mm for trap door

Flooring Options.

PVC flooring





FL101



FL02



FL102



FL03



FL201



FL04



FL202

Marble flooring



FL307



FL308

Door Options.



*only for 2P-CO

Panoramic door

Clear Glass with SS304 frame

Frame options









Golden hairline SS304 Bronze hairline SS304

Standard Door

Powder coating C000_RAL7047

Powder coating options









C031_RAL5012 C032_RAL5014 C041_RAL6024 C042_RAL1020 Bright blue Pigeon blue Tender green Olive yellow

Stainless steel options











Golden hairline SS304 Bronze hairline SS304



Standard COP & LIOP.

MAROHN THE 8

COP10

COP10

Indicator 5.7" black/white LCD

Faceplate Hairline stainless steel

Button Round & Braille Stainless

light White

Button standard: Round type

Button option: Sqaure type

HBP300

Indicator4.3" black/white LCDFaceplateHairline stainless steelButtonRound& Braille

light White

Structure Surface mounted



Premium COP options.





COP10 8" TFT photo

COP10 10.4" TFT Multimedia

$COP510 \quad {}^\star\!\mathsf{Full} \; \mathsf{height} \; \mathsf{type} \; \mathsf{avl.} \; \mathsf{at} \; \mathsf{front} \; \mathsf{panel}$

Indicator 8"TFT photo/ 10.4"TFT multimedia

Faceplate Hairline stainless steel

Button Round & Braille Stainless

light White

Button option: Sqaure type









COP510 10.4" TFT Multimedia

Premium options.

Simplex Display Option



Flushed mounted





Flushed mounted



HBP20

Surface mounted



Hall lantern





HL110 Flushed mounted



Flushed mounted

Duplex Display Option







HBP100BD Flushed mounted



HBP210 Surface mounted

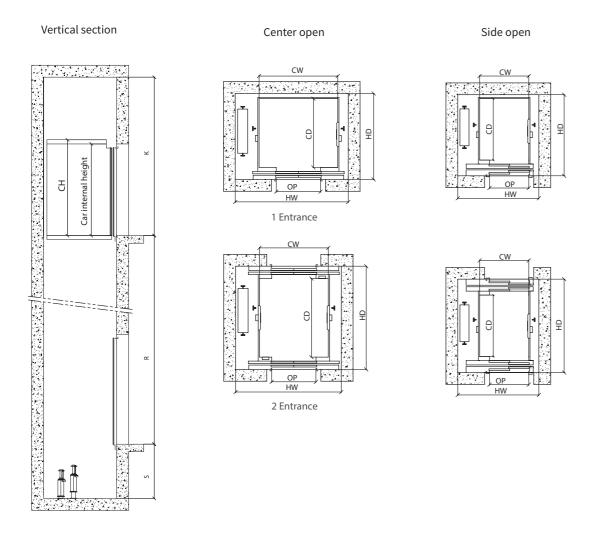
Handrail



Layout.

Standard Function Optional Function

*More Functions please review "Standard Equipment Binder"



Car internal height & overhead

| V | (m/s) | 1.0m/s | | | 1.5m/s | | | | 1.75m/s | | | | |
|------------------|-------------|--------|--------------|--------------|--------------|------|--------------|--------------|--------------|------|--------------|--------------|--------------|
| Car | internal | 2100 | 2200 | 2300 | 2400 | 2100 | 2200 | 2300 | 2400 | 2100 | 2200 | 2300 | 2400 |
| Door h | eight (mm) | 2000 | 2000 2100 | 2100 2200 | 2200 2300 | 2000 | 2000 2100 | 2100 2200 | 2200 2300 | 2000 | 2000 2100 | 2100 2200 | 2200 2300 |
| | 450-630 kg | 3550 | 3650 | 3750 | 3850 | 3700 | 3800 | 3900 | 4000 | 3750 | 3850 | 3950 | 4050 |
| Overhead (mm) | 800-1000 kg | 3600 | 3700 | 3800 | 3900 | 3750 | 3850 | 3950 | 4050 | 3800 | 3900 | 4000 | 4100 |
| | >1000 kg | 3950 | 4050 | 4150 | 4250 | 4100 | 4200 | 4300 | 4400 | 4150 | 4250 | 4350 | 4450 |

1. The table is based on CL06B, CL08, CL49 ceiling & PVC floor; 2. Please add 50mm to the overhead for option CL03, CL10, CL13, CL18, CL22, CL23, CL24, CL46, CL47, CL48 Ceiling; 3. EN81-1 code.

| | $\sqrt{}$ | Full Collection Control |
|-------------------------|-----------|--|
| | $\sqrt{}$ | Main landing return |
| | $\sqrt{}$ | Full load non-stop |
| | $\sqrt{}$ | Onward travel to the next stop in the case of non-opening door |
| Optimized functions | $\sqrt{}$ | Separate Setting Landing Door and Car Door response instruction time |
| Turictions | $\sqrt{}$ | Adjustable speed and torque of door operator |
| | $\sqrt{}$ | Energy saving operation for car light and fan |
| | $\sqrt{}$ | Re-leveling Operation(±50mm) |
| | $\sqrt{}$ | Changing main landing |
| | $\sqrt{}$ | Overload protect |
| | $\sqrt{}$ | Phase failure and phase reversal protection |
| | $\sqrt{}$ | Machine overheat protection and Variable-frequency Drive |
| Self-potective function | $\sqrt{}$ | Elevator drive overcurrent protection and overvoltage |
| Tarrettott | $\sqrt{}$ | Retrograde protection |
| | $\sqrt{}$ | Prevent slipping protection |
| | $\sqrt{}$ | GFCI Protection for shaft & cab light |
| | $\sqrt{}$ | Landing to the nearest floor in case of nonsecurity problem |
| | 0 | Fire emergency return |
| Emergency operation | $\sqrt{}$ | Emergency car lighting |
| орегистоп | $\sqrt{}$ | Alternate Fire Evacuation |
| | 0 | Automatic rescue device |
| | $\sqrt{}$ | Repeat door closing in the event of lock failure |
| | $\sqrt{}$ | Safety curtain for door |
| Comfortable | $\sqrt{}$ | Inspection running |
| riding | 0 | Air-condition |
| | $\sqrt{}$ | Braille button |
| | $\sqrt{}$ | Car call cancellation (double click) |
| | $\sqrt{}$ | Door open & close button |
| Ulaman | 0 | Door Hold button |
| Human machine | 0 | Car arrival charm |
| Interface | 0 | Handicapped COP |
| | 0 | Hall Lantern |
| Intelligent | $\sqrt{}$ | Shaft auto-tuning |
| learning | $\sqrt{}$ | Power failure recovery automatic correction |
| | $\sqrt{}$ | 5 ways intercom |
| | 0 | BA interface (4 dry contacts) |
| Mornitoring | 0 | Video Cable |
| | 0 | Voice announcement |
| | 0 | Access card system |

Function List.

Technical specification.

| | Load / Capatity | | Car (mm) | | | Door (mm) | | | | Lift shaft (mm) | | | | | | May | Max | | Remarks | |
|---------|-----------------|------|----------------------------|----------------|--------------------|-----------|--------|------|-------|-----------------|----------|-----------------|---------------|------------|------------------|-------------------|-------------------|------------------|------------|------------|
| | DL | V | CW | CD | Car | OP | ОРН | | HW | HD | S Pit | | K Overhead | | Max. Rise (m) | Max. number of | Max. number of | No. of entrances | Non-fired | Fired |
| Persons | kg | m/s | Width | Depth | internal height | Width | Height | TYPE | Width | Depth | EN81-1 | t EN81-20/50 | EN81-1 | EN81-20/50 | (****) | stops | landing door | circianees | rated door | rated door |
| | | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 16 | | | |
| 6 | 450 | 1.5 | 1000 | 1000 1250 | 2200 | 700 | 2100 | CO | 1650 | 1600 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 25 | 1 | Х | х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 30 | | | |
| | | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 16 | | | |
| 6 | 450 | 1.5 | 5 1000 125 | 1250 | 2200 | 800 | 2100 | СО | 1750 | 1600 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 25 | 1 | х | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 30 | | | |
| | | 1.0 | | | | | | | | 1600 | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 16 | | - | |
| 6 | 450 | 1.5 | 1000 | 1250 | 2200 | 800 | 2100 | CO | 1800 | | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 25 | 1 | | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 30 | | | |
| | 450 | 1.0 | | | | 800 | 2100 | SO | 1650 | 1650 | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 16 | | Х | Х |
| 6 | | 1.5 | 1.5 1000 | 1250 | 2200 | | | | | | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 25 | 1 | | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 30 | | | |
| 8 | 630 | 1.0 | | 1100 1400 | 2200 | 800 | 2100 | СО | 1750 | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 16 | | | |
| | | 1.5 | 1100 | | | | | | | 1750 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 25 | 1 | Х | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 30 | | | |
| 8 | 630 | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 16 | | | Х |
| | | 1.5 | 1100 | 1400 | 2200 | 800 | 2100 | CO | 1800 | 1750 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 25 | 1 | | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 30 | | | |
| | | 1.0 | | | 2200 | 800 | 2100 | СО | | 1750 | 1200 | 1250 | 3700 | 4000 | 50 | 16 | 16 | | х | |
| 10 | 800 | 1.5 | 1400 | 1400 | | | | | 2100 | | 1300 | 1350 | 3850 | 4150 | 75 | 25 | 25 | 1 | | Χ |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3900 | 4200 | 90 | 30 | 30 | | | |
| | 900 | 1.0 | | | | 900 | 2100 | СО | 2200 | 1750 | 1200 | 1250 | 3700 | 4000 | 50 | 16 | 16 | | х | х |
| 12 | | 1.5 | 1500 | 1500 1400 | 2200 | | | | | | 1300 | 1350 | 3850 | 4150 | 75 | 25 | 25 | 1 | | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3900 | 4200 | 90 | 30 | 30 | | | |
| | 1000 | 1.0 | | | | | | | | 1200 | 1250 | 3700 | 4000 | 50 | 16 | 16 | | | | |
| 13 | | 1.5 | | 1400 | 2200 | 900 | 2100 | CO | 2300 | 1750 | 1300 | 1350 | 3850 | 4150 | 75 | 25 | 25 | 1 | Х | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3900 | 4200 | 90 | 30 | 30 | | | |
| | 1150 | 1.0 | 1.5 1550 1700 2200 1.75 | | | | | | | 1450 | 1450 | 4050 | 4050 | 50 | 16 | 16 | | | | |
| 15 | | 1.5 | | 1700 | 2200 | 1000 | 2100 | CO | 2500 | 2050 | 1550 | 1550 | 4200 | 4200 | 75 | 25 | 25 | 1 | Х | X |
| | | 1.75 | | | | | | | | 1600 | 1600 | 4250 | 4250 | 90 | 30 | 30 | | | | |
| 18 | 1350 | 1.0 | 0 1000 | 1000 | | | | | | 2150 | 1450 | 1450 | 4050 | 4050 | 50 | 16 | 16 | | х | х |
| | | 1.5 | 1700 | 1800 (1700) | 2200 | 1000 | 2100 | CO | 2600 | 2150 (2050) | 1550 | 1550 | 4200 | 4200 | 75 | 25 | 25 | 1 | | |
| | | 1.75 | | | | | | | | • | 1600 | 1600 | 4250 | 4250 | 90 | 30 | 30 | | | |
| | | 1.0 | | | | | | | | | 1450 | 1450 | 4050 | 4050 | 50 | 16 | 16 | | | |
| 21 | 1600 | 1.5 | 1.5 1700 2000 2200 | 1000 | 000 2100 | CO | 2600 | 2350 | 1550 | 1550 | 4200 | 4200 | | 25 | 25 | 1 | Х | Х | | |
| | | 1.75 | | | | | | | | | 1600 | 1600 | 4250 | 4250 | 90 | 30 | 30 | | | |

Technical specification.

| | Load / Capatity | | | Car (mm) | | | Door (mm) | | | Lift shaft (mm) | | | | | | Max | May | | Remarks | |
|------------|-----------------|------|---------------------------------|----------------|--------------------|-------|----------------------------------|------|-------|-----------------|----------|-----------------|---------------|---------------------|------------------|-------------------|-------------------|------------------|------------|------------|
| | DL | V | CW | CD | Car | ОР | ОРН | | HW | HD | S Pit | | K Overhead | | Max. Rise (m) | Max. number of | Max. number of | No. of entrances | Non-fired | Fired |
| Persons | kg | m/s | Width | Depth | internal height | Width | Height | TYPE | Width | Depth | EN81-1 | t EN81-20/50 | EN81-1 | rhead EN81-20/50 | (111) | stops | landing door | entrances | rated door | rated door |
| | | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 32 | | | |
| 6 | 450 | 1.5 | 1000 | 1250 | 2200 | 700 | 2100 | СО | 1650 | 1750 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 40 | 2×180° | Х | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 40 | | | |
| 6 | 450 | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 32 | | Х | |
| | | 1.5 | | 1250 | 2200 | 800 | 2100 | СО | 1750 | 1750 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 40 | 2×180° | | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 40 | | | |
| 6 | | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 32 | | | |
| | 450 | 1.5 | | 1250 | 2200 | 800 | 2100 | CO | 1800 | 1750 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 40 | 2×180° | | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 40 | | | |
| 6 | | 1.0 | | 1000 1250 | | | | SO | 1650 | 1900 | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 32 | | | |
| | 450 | 1.5 | 1.5 1000 | | 2200 | 800 | 2100 | | | | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 40 | 2×180° | Х | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 40 | | | |
| 8 | 630 | 1.0 | | 1100 1400 | | | | | | 1900 | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 32 | | | |
| | | 1.5 | 1100 | | 2200 | 800 | 2100 | CO | 1750 | | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 40 | 2×180° | Х | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 40 | | | |
| 8 | 630 | 1.0 | | | | | | | | | 1200 | 1250 | 3650 | 4000 | 50 | 16 | 32 | | | х |
| | | 1.5 | 1100 | 1400 | 2200 | 800 | 2100 | CO | 1800 | 1900 | 1300 | 1350 | 3800 | 4150 | 75 | 25 | 40 | 2×180° | | |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3850 | 4200 | 90 | 30 | 40 | | | |
| | | 1.0 | | | | | 2100 | СО | 2000 | 2000 | 1200 | 1250 | 3700 | 4000 | 50 | 16 | 32 | | Х | |
| 10 | 800 | 1.5 | 1300 | 1500 | 2200 | 800 | | | | | 1300 | 1350 | 3850 | 4150 | 75 | 25 | 40 | 2×180° | | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3900 | 4200 | 90 | 30 | 40 | _ | | |
| | 900 | 1.0 | | | | | | | | | 1200 | 1250 | 3700 | 4000 | 50 | 16 | 32 | | | |
| 12 | | 1.5 | 1400 | 400 1500 2 | 2200 | 900 | 2100 | CO | 2100 | 2000 | 1300 | 1350 | 3850 | 4150 | 75 | 25 | 40 | 2×180° | Х | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3900 | 4200 | 90 | 30 | 40 | | | |
| | | 1.0 | | | | | | | | 1200 | 1250 | 3700 | 4000 | 50 | 16 | 32 | | | | |
| 13 | 1000 | 1.5 | | 1600 | 2200 | 900 | 2100 | CO | 2100 | 2100 | 1300 | 1350 | 3850 | 4150 | 75 | 25 | 40 | 2×180° | Х | Х |
| | | 1.75 | | | | | | | | | 1350 | 1400 | 3900 | 4200 | 90 | 30 | 40 | | | |
| 15 | | 1.0 | 1.0 1.5 1550 1700 | | | | | | | 1450 | 1450 | 4050 | 4050 | 50 | 16 | 32 | | | | |
| | 1150 | 1.5 | | 1700 | 2200 | 1000 | 2100 | CO | 2500 | 2200 | 1550 | 1550 | 4200 | 4200 | 75 | 25 | 40 | 2×180° | Χ | Χ |
| | | 1.75 | | | | | | | | | 1600 | 1600 | 4250 | 4250 | 90 | 30 | 40 | | | |
| 18 (17) | 1350 (1275) | 1.0 | | 1000 | | | .000 2100 CO 2600 2300 (2200) | | | 2200 | 1450 | 1450 | 4050 | 4050 | 50 | 16 | 32 | | | |
| | | 1.5 | 1700 | 1800 (1700) | 2200 | 1000 | | 1550 | 1550 | 4200 | 4200 | 75 | 25 | 40 | 2×180° | Х | Х | | | |
| | | 1.75 | | . , | | | | | | . , | 1600 | 1600 | 4250 | 4250 | 90 | 30 | 40 | | | |
| | | 1.0 | | | | | | | | | 1450 | 1450 | 4050 | 4050 | 50 | 16 | 32 | | | Х |
| 21 | 1600 | 1.5 | 1700 | 2000 | 2200 | 1000 | 2100 | CO | 2600 | 2500 | 1550 | 1550 | 4200 | 4200 | 75 | 25 | 40 | 2×180° | Χ | |
| | | 1.75 | | | | | | | | | 1600 | 1600 | 4250 | 4250 | 90 | 30 | 40 | | | |

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